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12 January 1959

Dear [REDACTED]

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The attached specification is a compilation of the subjects discussed  
at a conference attended by [REDACTED]

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[REDACTED] on 21 November 1958,  
in Washington, D. C.

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The nature of this document prevents our forwarding a copy to  
[REDACTED] but copy for [REDACTED] is attached and it is  
requested that you forward this copy to him in accordance with your  
security procedure.

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Very truly yours,

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SRS:nw

Enclosures

Set of Specifications

Copy of Specifications for [REDACTED]

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NO. R09-1105/23 Copy 1

Page 1 of 3

TENTATIVE SPECIFICATION

The following is a general signal specification for the interoperation of the Data Collector and Digital Converter units of the AS-6 Field Unit.

## Signal:

1. ALERT LINE. The Alert line will provide the Data Collector with a negative-going 10 volt step (@ 15 milliamperes) for the purpose of initiating the Data Collector Turn-On function. The ~~±~~10 volt DC level shift will occur approximately 280 milliseconds prior to the first clock pulse of each readout operation.

2. CLOCK or READOUT LINE. The Readout line will provide the Data Collector with clock pulses having the following specifications: amplitude, 5 volts (0 to +5) minimum; duration,  $175 \pm 25$  microseconds; repetition rate, 200 pps. The Digital Converter will provide these clock pulses continuously during the time interval which commences approximately 280 milliseconds following the Data Collector alert signal, and terminates upon receipt of a stop pulse from the Collector.

3. INFORMATION LINE. The Information line will provide the Digital Converter with the information stored in the Collector memory unit. The first bit of information will be emitted by the Collector upon receipt of the first readout pulse from the Data Converter and the time delay therein will be less than 5 microseconds. The information pulses will have the following parameters: amplitude, 5 volts (0 to +5) minimum;

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NO. RD9-1105/23

Copy 1

Page 2 of 3

duration, 20 microseconds minimum; rise time, 8 microseconds maximum.

4. STOP PULSE LINE. The Stop Pulse line will provide the Digital Converter with a single pulse which is time coincident with the last information bit received from the Collector. This pulse will consist of a differentiated spike with the following parameters: amplitude, 5 volts (0 to +5) minimum; rise time, 2 microseconds maximum; decay time, 3 milliseconds (approximately).

5. CLEAR LINE. The Clear line will provide the Collector with a clearing signal consisting of a negative 14 volt (unregulated) step which will be capable of delivering at least 250 milliamperes of current (-14v @ 250 ma).

Note: This is a change and was incorporated December 19, 1958.

6. PANIC LINE. The Data Collector will provide a Panic Pulse (level shift) which will consist of a negative 10 volt step capable of supplying 15 milliamperes of current to the appropriate relay circuit (-10v @ 15 ma).

#### Power:

1. The inter-unit connections will be made through a fifteen conductor cable (supplied with the Collector package) which will be approximately six to eight feet in length. The connector will be at the Data Converter end of the cable and will be supplied by  as soon

25X1

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SECRET

SECRET DOCUMENT  
NO. RD9-1105/23  
Page 3 of 3  
Copy 1

as the outside diameter of the cable is made known to them. The tentative pin numbers are assigned as follows:

Pin No.:

1. Alert Line
2. Readout (Clock) Line
3. Information Line
4. Stop Pulse Line
5. Clear Line
6. Panic Line\*
7. +14 volts
8. +7 volts
9. -7 volts
10. -14 volts
11. System Ground\*
12. Reference Line (if used)
13. --
14. --
15. --

\*Note: The pin numbers of these two lines have been changed from the numbers originally agreed upon.

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TODATE: 29 December 1958 25X1

SUBJECT: January, 1959, AS-6 Antenna Tests 25X1

FROMBLDG.EXT.

The following frequencies are requested for use in the January, 1959, AS-6 field unit antenna tests:

<u>Channel</u>	<u>Frequency</u>	<u>Alternate No. 1</u>	<u>Alternate No. 2</u>

\* Used previously

GJN:tl